

Connecting via Winsock to STN

Welcome to STN International! Enter x:x

LOGINID:SSSPTA1642BJF

PASSWORD:

TERMINAL (ENTER 1, 2, 3, OR ?):2

Enter NEWS followed by the item number or name to see news on that specific topic.

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FILE 'HOME' ENTERED AT 12:00:28 ON 10 JAN 2007

```
=> file reg  
COST IN U.S. DOLLARS  
FULL ESTIMATED COST
```

SINCE FILE ENTRY	TOTAL SESSION
0.21	0.21

FILE 'REGISTRY' ENTERED AT 12:00:36 ON 10 JAN 2007
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STRUCTURE FILE UPDATES: 9 JAN 2007 HIGHEST RN 917076-17-6
DICTIONARY FILE UPDATES: 9 JAN 2007 HIGHEST RN 917076-17-6

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH June 30, 2006

Please note that search-term pricing does apply when conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

<http://www.cas.org/ONLINE/UG/regprops.html>

```
=> E "3-OXODODECANOYL)HOMOSERINE LACTONE"/CN 25  
E1      1 3-OXODIPROPYLACETIC ACID/CN  
E2      1 3-OXODODECANOIC ACID/CN  
E3      0 --> 3-OXODODECANOYL)HOMOSERINE LACTONE/CN  
E4      1 3-OXOECODYSONE 2,22-DIACETATE/CN  
E5      1 3-OXOECODYSTEROID 3A-REDUCTASE/CN  
E6      1 3-OXOECODYSTEROID 3B-REDUCTASE/CN  
E7      1 3-OXOEDPETISININE/CN  
E8      1 3-OXOENANTHIC ACID/CN  
E9      1 3-OXOEREMOPHILA-1,7(11)-DIEN-12,8B-OLIDE/CN  
E10     1 3-OXOERGOSTANE/CN  
E11     1 3-OXOESTR-4-ENE-17B-CARBONITRILE/CN  
E12     1 3-OXOESTR-4-ENE-17B-ISOCARBONITRILE/CN  
E13     1 3-OXOESTR-5(10)-ENE-17B-CARBONITRILE/CN  
E14     1 3-OXOESTRA-4,9,11-TRIENE-17B-CARBONITRILE/CN  
E15     1 3-OXOESTRA-4,9-DIENE-17B-CARBONITRILE/CN  
E16     1 3-OXOESTRA-5(10),9(11)-DIENE-17B-CARBONITRILE/CN  
E17     1 3-OXOEUCOSTEROL/CN  
E18     1 3-OXOEUDESMA-4,11-DIEN-12-OIC ACID/CN  
E19     1 3-OXOFLAVAN/CN  
E20     1 3-OXOFLAVAN OXIME/CN  
E21     1 3-OXFRIEDELAN-25-AL/CN  
E22     1 3-OXFRIEDELAN-25-OL/CN  
E23     1 3-OXFRIEDELAN-4A-OL/CN  
E24     1 3-OXFRIEDELANE-20A-CARBOXYLIC ACID/CN  
E25     1 3-OXFUSIDIC ACID/CN
```

```
=>  
Connecting via Winsock to STN
```

Welcome to STN International! Enter x:x

LOGINID:SSSPTA1642BJF

PASSWORD:

* * * * * RECONNECTED TO STN INTERNATIONAL * * * * *
SESSION RESUMED IN FILE 'REGISTRY' AT 12:02:29 ON 10 JAN 2007
FILE 'REGISTRY' ENTERED AT 12:02:29 ON 10 JAN 2007
COPYRIGHT (C) 2007 American Chemical Society (ACS)

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.90	1.11

=> file reg
COST IN U.S. DOLLARS

	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.90	1.11

FILE 'REGISTRY' ENTERED AT 12:02:37 ON 10 JAN 2007
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Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 9 JAN 2007 HIGHEST RN 917076-17-6
DICTIONARY FILE UPDATES: 9 JAN 2007 HIGHEST RN 917076-17-6

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH June 30, 2006

Please note that search-term pricing does apply when conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

<http://www.cas.org/ONLINE/UG/regprops.html>

=> E "OXODODECANOYL HOMOSERINE "/CN 25
E1 1 OXODIPHENYLSTANNANE/CN
E2 1 OXODIPINE/CN
E3 0 --> OXODODECANOYL HOMOSERINE /CN
E4 1 OXODOLIN/CN
E5 1 OXODUOCINE/CN
E6 1 OXOEICOSAHYDROXYBIS(HYDROGEN OXALATO) OCTAZIRCONIUM OCTACHLORIDE,
COMPD. WITH PYRIDINE/CN
E7 1 OXOEICOSATETRAENOATE RECEPTOR (HUMAN NEUTROPHIL)/CN
E8 1 OXOENOXACIN/CN
E9 1 OXOEPISTEPHAMIERSINE/CN
E10 1 OXOETHANOIC ACID/CN
E11 1 OXOETHENYLIDENE/CN
E12 1 OXOFANGCHIRINE/CN
E13 1 OXOFARNOCHROL/CN
E14 1 OXOFERIN/CN
E15 1 OXOFERRATE ION (FE601614-)/CN
E16 1 OXOFLACCIDIN/CN
E17 1 OXOFLACCIDIN DIACETATE/CN
E18 1 OXOFLAVIDIN/CN
E19 1 OXOFLAVIDIN DIACETATE/CN
E20 1 OXOFLAVIDIN DIMETHYL ETHER/CN
E21 1 OXOFLAVIDININ/CN
E22 1 OXOFEROXACIN/CN

E23 1 OXOFORMYCIN/CN
E24 1 OXOFORMYCIN A/CN
E25 1 OXOFORMYCIN B/CN

=> Connecting via Winsock to STN

Welcome to STN International! Enter x:x

LOGINTID:SSSPTA1642BJF

PASSWORD:

TERMINAL (ENTER 1, 2, 3, OR ?):2

Enter NEWS followed by the item number or name to see news on that specific topic.

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* * * * * * * * * * * * * * * STN Columbus * * * * * * * * * * * * *

FILE 'HOME' ENTERED AT 15:27:16 ON 10 JAN 2007

=> s apopt? or (cell death)

THIS COMMAND NOT AVAILABLE IN THE CURRENT FILE

Some commands only work in certain files. For example, the EXPAND command can only be used to look at the index in a file which has an index. Enter "HELP COMMANDS" at an arrow prompt (=>) for a list of commands which can be used in this file.

=> file caplus

COST IN U.S. DOLLARS

| SINCE FILE
ENTRY | TOTAL
SESSION |
|---------------------|------------------|
| 0.21 | 0.21 |

FULL ESTIMATED COST

FILE 'CAPLUS' ENTERED AT 15:27:41 ON 10 JAN 2007

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FILE COVERS 1907 - 10 Jan 2007 VOL 146 ISS 3

FILE LAST UPDATED: 9 Jan 2007 (20070109/ED)

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<http://www.cas.org/infopolicy.html>

=> s apopt? or (cell death)

135737 APOPT?

2158842 CELL

1884225 CELLS

2849698 CELL

(CELL OR CELLS)

144301 DEATH

11528 DEATHS

152482 DEATH

(DEATH OR DEATHS)

61811 CELL DEATH

(CELL(W) DEATH)

L1 161314 APOPT? OR (CELL DEATH)

=> s ?homoserine lactone

4407 ?HOMOSERINE

58701 LACTONE

27222 LACTONES

69986 LACTONE

(LACTONE OR LACTONES)

L2 1190 ?HOMOSERINE LACTONE

(?HOMOSERINE (W) LACTONE)

=> s 12 (L) 11

L3 15 L2 (L) L1

=> s 13 not py>2003
3716318 PY>2003
L4 2 L3 NOT PY>2003

=> d ibib 1-2

L4 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2003:778671 CAPLUS
DOCUMENT NUMBER: 139:306377
TITLE: The Pseudomonas aeruginosa autoinducer
N-3-oxododecanoyl homoserine lactone
accelerates apoptosis in macrophages and
neutrophils
AUTHOR(S): Tateda, Kazuhiro; Ishii, Yoshikazu; Horikawa, Manabu;
Matsumoto, Tetsuya; Miyairi, Shinichi; Pechere, Jean
Claude; Standiford, Theodore J.; Ishiguro, Masaji;
Yamaguchi, Keizo
CORPORATE SOURCE: Department of Microbiology, Toho University School of
Medicine, Tokyo, Japan
SOURCE: Infection and Immunity (2003), 71(10), 5785-5793
CODEN: INFIBR; ISSN: 0019-9567
PUBLISHER: American Society for Microbiology
DOCUMENT TYPE: Journal
LANGUAGE: English
REFERENCE COUNT: 50 THERE ARE 50 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2001:721658 CAPLUS
DOCUMENT NUMBER: 136:2547
TITLE: Interaction and division of bacterial cells
AUTHOR(S): Kaca, Wieslaw; Amano, Kenichi
CORPORATE SOURCE: Cent. Microbiol. Virol., PAS, Lodz, 90-232, Pol.
SOURCE: Postepy Mikrobiologii (2001), 40(1), 31-41
CODEN: PMKMAV; ISSN: 0079-4252
PUBLISHER: Polskie Towarzystwo Mikrobiologow
DOCUMENT TYPE: Journal; General Review
LANGUAGE: English
REFERENCE COUNT: 65 THERE ARE 65 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> d kwic 2

L4 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2007 ACS on STN
AB degradation by a PBP complex. The cell division is driven by signals
from other bacterial cells. Short peptides and N-acetyl
homoserine lactones (AHLs) are signaling mols. The
coordinated behavior of bacterial populations may allow looking on them as
multicellular organisms. By influencing the host cell activities (i.e.,
apoptosis), bacterial mols. are also important in diseases.

=> d ibib abs 2

L4 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2001:721658 CAPLUS
DOCUMENT NUMBER: 136:2547
TITLE: Interaction and division of bacterial cells
AUTHOR(S): Kaca, Wieslaw; Amano, Kenichi
CORPORATE SOURCE: Cent. Microbiol. Virol., PAS, Lodz, 90-232, Pol.
SOURCE: Postepy Mikrobiologii (2001), 40(1), 31-41
CODEN: PMKMAV; ISSN: 0079-4252
PUBLISHER: Polskie Towarzystwo Mikrobiologow

DOCUMENT TYPE: Journal; General Review
LANGUAGE: English
AB A review with refs. on cell division and communication among bacterial cells. Bacterial division starts from the building of a septum by FtsZ proteins across the cell. The constriction of the cell is accompanied by peptidoglycan synthesis and degradation by a PBP complex. The cell division is driven by signals from other bacterial cells. Short peptides and N-acetyl homoserine lactones (AHLs) are signaling mols. The coordinated behavior of bacterial populations may allow looking on them as multicellular organisms. By influencing the host cell activities (i.e., apoptosis), bacterial mols. are also important in diseases.
REFERENCE COUNT: 65 THERE ARE 65 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> s (interleukin () 8) or (IL () 8)
154382 INTERLEUKIN
5972 INTERLEUKINS
156306 INTERLEUKIN
(INTERLEUKIN OR INTERLEUKINS)
2782066 8
14523 INTERLEUKIN (W) 8
121498 IL
1240 ILS
122352 IL
(IL OR ILS)
2782066 8
11167 IL (W) 8
L5 16218 (INTERLEUKIN (W) 8) OR (IL (W) 8)

=> d his

(FILE 'HOME' ENTERED AT 15:27:16 ON 10 JAN 2007)

FILE 'CAPLUS' ENTERED AT 15:27:41 ON 10 JAN 2007
L1 161314 S APOPT? OR (CELL DEATH)
L2 1190 S ?HOMOSERINE LACTONE
L3 15 S L2 (L) L1
L4 2 S L3 NOT PY>2003
L5 16218 S (INTERLEUKIN () 8) OR (IL () 8)

=> s 15 (L) 11
L6 686 L5 (L) L1

=> s 16 not py>2002
4771960 PY>2002
L7 286 L6 NOT PY>2002

=> d kwic 1

L7 ANSWER 1 OF 286 CAPLUS COPYRIGHT 2007 ACS on STN
AB . . . human defense, but also may contribute to the pathogenesis of various disorders. They are capable of causing tissue destruction and cell death. Neutrophilic inflammation is observed in patients with α - proteinase inhibitor deficiency, bronchitis, emphysema, ARDS, COPD, re-perfusion injury, cystic fibrosis, acute. . . of the acute and chronic inflammatory response. NE perpetuates the cycle of inflammation by promoting the generation of chemoattractants, particularly interleukin-8 and leukotriene B4, which recruit more neutrophils into the tissue. The stimulation status of neutrophils in inflamed tissue can be. . .

=> s 11 and 12

L8 18 L1 AND L2

=> s 18 not py>2002
4771960 PY>2002
L9 1 L8 NOT PY>2002

=> d ibib

L9 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2001:721658 CAPLUS
DOCUMENT NUMBER: 136:2547
TITLE: Interaction and division of bacterial cells
AUTHOR(S): Kaca, Wieslaw; Amano, Kenichi
CORPORATE SOURCE: Cent. Microbiol. Virol., PAS, Lodz, 90-232, Pol.
SOURCE: Postepy Mikrobiologii (2001), 40(1), 31-41
CODEN: PMKMAV; ISSN: 0079-4252
PUBLISHER: Polskie Towarzystwo Mikrobiologow
DOCUMENT TYPE: Journal; General Review
LANGUAGE: English
REFERENCE COUNT: 65 THERE ARE 65 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> file pctfull
COST IN U.S. DOLLARS
FULL ESTIMATED COST

| SINCE FILE ENTRY | TOTAL SESSION |
|------------------|---------------|
| 37.55 | 37.76 |

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)
CA SUBSCRIBER PRICE

| SINCE FILE ENTRY | TOTAL SESSION |
|------------------|---------------|
| -2.34 | -2.34 |

FILE 'PCTFULL' ENTERED AT 15:32:39 ON 10 JAN 2007
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FILE LAST UPDATED: 8 JAN 2007 <20070108/UP>
MOST RECENT UPDATE WEEK: 200701 <200701/EW>
FILE COVERS 1978 TO DATE

>>> IMAGES ARE AVAILABLE ONLINE AND FOR EMAIL-PRINTS <<<

>>> NEW IPC8 DATA AND FUNCTIONALITY NOW AVAILABLE IN THIS FILE.
SEE
[>>>](http://www.stn-international.de/stndatabases/details/ipc-reform.html)

=> s apopt? or (cell death)
25485 APOPT?
238544 CELL
205255 CELLS
270655 CELL
(CELL OR CELLS)
48279 DEATH
8016 DEATHS
51338 DEATH
(DEATH OR DEATHS)
20474 CELL DEATH
(CELL(W) DEATH)
L10 33437 APOPT? OR (CELL DEATH)

=> s ?homoserine lactone
2662 ?HOMOSERINE
9241 LACTONE
5261 LACTONES
12579 LACTONE
(LACTONE OR LACTONES)

L11 360 ?HOMOSERINE LACTONE
(?HOMOSERINE (W) LACTONE)

=> s l11 and l10
L12 48 L11 AND L10

=> s l12 not py>2002
489451 PY>2002
L13 28 L12 NOT PY>2002

=> s oxododecanoyl
L14 40 OXODODECANOYL

=> s l14 and l13
L15 0 L14 AND L13

=> s l15 and l11
L16 0 L15 AND L11

=> s l14 and l11
L17 39 L14 AND L11

=> s l17 and l10
L18 3 L17 AND L10

=> d ibib 1-3

L18 ANSWER 1 OF 3 PCTFULL COPYRIGHT 2007 Univentio on STN
ACCESSION NUMBER: 2005094883 PCTFULL ED 20051018 EW 200541
TITLE (ENGLISH): METHODS FOR INDUCING AUTOLYSIS IN INFECTIOUS BACTERIA
TITLE (FRENCH): METHODES POUR INDUIRE UNE AUTOLYSE DANS DES BACTERIES
INVENTOR(S): CHARLTON, Keith, Alan, Haptogen Ltd, Polwarth Building,
Foresterhill, Aberdeen, Aberdeenshire AB25 2ZD, GB [GB,
GB];
PORTER, Andrew, Justin, Radcliffe, Haptogen Ltd,
Polwarth Building, Foresterhill, Aberdeen,
Aberdeenshire AB25 2ZD, GB [GB, GB];
BROADBENT, Ian, Haptogen Ltd, Polwarth Building,
Foresterhill, Aberdeen, Aberdeenshire AB25 2ZD, GB [GB,
GB]
PATENT ASSIGNEE(S): HAPTOGEN LTD, Polwarth Building, Foresterhill,
Aberdeen, Aberdeenshire AB25 2ZD, GB [GB, GB], for all
designates States except US;
CHARLTON, Keith, Alan, Haptogen Ltd, Polwarth Building,
Foresterhill, Aberdeen, Aberdeenshire AB25 2ZD, GB [GB,
GB], for US only;
PORTER, Andrew, Justin, Radcliffe, Haptogen Ltd,
Polwarth Building, Foresterhill, Aberdeen,
Aberdeenshire AB25 2ZD, GB [GB, GB], for US only;
BROADBENT, Ian, Haptogen Ltd, Polwarth Building,
Foresterhill, Aberdeen, Aberdeenshire AB25 2ZD, GB [GB,
GB], for US only
AGENT: BASSIL, Nicholas, Charles\$, Kilburn & Strode, 20 Red
Lion Street, London WC1R 4PJ\$, GB
LANGUAGE OF FILING: English
LANGUAGE OF PUBL.: English
DOCUMENT TYPE: Patent
PATENT INFORMATION:
NUMBER KIND DATE

WO 2005094883 A2 20051013
DESIGNATED STATES
W: AE AG AL AM AT AU AZ BA BB BG BR BW BY BZ CA CH CN CO
CR CU CZ DE DK DM DZ EC EE EG ES FI GB GD GE GH GM HR

HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV
MA MD MG MK MN MW MX MZ NA NI NO NZ OM PG PH PL PT RO
RU SC SD SE SG SK SL SM SY TJ TM TN TR TT TZ UA UG US
UZ VC VN YU ZA ZM ZW
RW (ARIPO): BW GH GM KE LS MW MZ NA SD SL SZ TZ UG ZM ZW
RW (EAPO): AM AZ BY KG KZ MD RU TJ TM
RW (EPO): AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT
LT LU MC NL PL PT RO SE SI SK TR
RW (OAPI): BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG
APPLICATION INFO.: WO 2005-GB1108 A 20050324
PRIORITY INFO.: GB 2004-0407008.2 20040327

L18 ANSWER 2 OF 3 PCTFULL COPYRIGHT 2007 Univentio on STN
ACCESSION NUMBER: 2003075654 PCTFULL ED 20030926 EW 200338
TITLE (ENGLISH): TREATMENT OF SURFACES POPULATED BY BACTERIA
TITLE (FRENCH): TRAITEMENT DE SURFACES PEUPLEES DE BACTERIES
INVENTOR(S): PRITCHARD, David, Idris, 83 Breach Field Road,
Barrow-upon-Soar, Leicester LE12 8NN, GB [GB, GB]
PATENT ASSIGNEE(S): THE UNIVERSITY OF NOTTINGHAM, University Park,
Nottingham NG7 2RD, GB [GB, GB], for all designates
States except US;
PRITCHARD, David, Idris, 83 Breach Field Road,
Barrow-upon-Soar, Leicester LE12 8NN, GB [GB, GB], for
US only
AGENT: WILKINSON, Stephen, John\$, Stevens, Hewlett & Perkins,
1 St Augustine's Place, Bristol BS1 4UD\$, GB
LANGUAGE OF FILING: English
LANGUAGE OF PUBL.: English
DOCUMENT TYPE: Patent
PATENT INFORMATION:

| NUMBER | KIND | DATE |
|---------------|------|----------|
| WO 2003075654 | A2 | 20030918 |

DESIGNATED STATES
W: AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR
CU CZ DE DK DM DZ EC EE ES FI GB GD GE GH GM HR HU ID
IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD
MG MK MN MW MX MZ NO NZ OM PH PL PT RO RU SC SD SE SG
SK SL TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW
RW (ARIPO): GH GM KE LS MW MZ SD SL SZ TZ UG ZM ZW
RW (EAPO): AM AZ BY KG KZ MD RU TJ TM
RW (EPO): AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LU
MC NL PT RO SE SI SK TR
RW (OAPI): BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG
APPLICATION INFO.: WO 2003-GB959 A 20030306
PRIORITY INFO.: GB 2002-0205593.7 20020309

L18 ANSWER 3 OF 3 PCTFULL COPYRIGHT 2007 Univentio on STN
ACCESSION NUMBER: 2003026641 PCTFULL ED 20030410 EW 200314
TITLE (ENGLISH): MODULATION OF STAT ACTIVITY
TITLE (FRENCH): MODULATION DE L'ACTIVITE DE STAT
INVENTOR(S): SHAW, Peter, 145 Harrow Road, Wollaton, Nottingham NG8
1FL, GB [GB, GB];
PRITCHARD, Davi, University of Nottingham, Research
Business Park, Nottingham NG7 2RD, GB [GB, GB];
LI, Li, 6 Topliss Road, Beeston, Nottingham NG9 5AS, GB
[GB, GB]
PATENT ASSIGNEE(S): UNIVERSITY OF NOTTINGHAM, Research Business Unit,
University Park, Nottingham NG7 2RD, GB [GB, GB], for
all designates States except US;
SHAW, Peter, 145 Harrow Road, Wollaton, Nottingham NG8
1FL, GB [GB, GB], for US only;
PRITCHARD, Davi, University of Nottingham, Research
Business Park, Nottingham NG7 2RD, GB [GB, GB], for US
only;

LI, Li, 6 Topliss Road, Beeston, Nottingham NG9 5AS, GB
 [GB, GB], for US only
 I.P.21 LIMITED\$, Norwich Research Park, Colney,
 Norwich, Norfolk NR4 7UT\$, GB
 AGENT:
 LANGUAGE OF FILING: English
 LANGUAGE OF PUBL.: English
 DOCUMENT TYPE: Patent
 PATENT INFORMATION:
 DESIGNATED STATES
 W: AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR
 CU CZ DE DK DM DZ EC EE ES FI GB GD GE GH GM HR HU ID
 IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD
 MG MK MN MW MX MZ NO NZ OM PH PL PT RO RU SD SE SG SI
 SK SL TJ TM TN TR TT TZ UA UG US UZ VN YU ZA ZM ZW
 RW (ARIPO): GH GM KE LS MW MZ SD SL SZ TZ UG ZM ZW
 RW (EAPO): AM AZ BY KG KZ MD RU TJ TM
 RW (EPO): AT BE BG CH CY CZ DE DK EE ES FI FR GB GR IE IT LU MC
 NL PT SE SK TR
 RW (OAPI): BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG
 APPLICATION INFO.: WO 2002-GB4232 A 20020917
 PRIORITY INFO.: GB 2001-0122914.5 20010922

=> d his

(FILE 'HOME' ENTERED AT 15:27:16 ON 10 JAN 2007)

FILE 'CAPLUS' ENTERED AT 15:27:41 ON 10 JAN 2007

L1 161314 S APOPT? OR (CELL DEATH)
 L2 1190 S ?HOMOSERINE LACTONE
 L3 15 S L2 (L) L1
 L4 2 S L3 NOT PY>2003
 L5 16218 S (INTERLEUKIN () 8) OR (IL () 8)
 L6 686 S L5 (L) L1
 L7 286 S L6 NOT PY>2002
 L8 18 S L1 AND L2
 L9 1 S L8 NOT PY>2002

FILE 'PCTFULL' ENTERED AT 15:32:39 ON 10 JAN 2007

L10 33437 S APOPT? OR (CELL DEATH)
 L11 360 S ?HOMOSERINE LACTONE
 L12 48 S L11 AND L10
 L13 28 S L12 NOT PY>2002
 L14 40 S OXODODECANOYL
 L15 0 S L14 AND L13
 L16 0 S L15 AND L11
 L17 39 S L14 AND L11
 L18 3 S L17 AND L10

=> file caplus

| COST IN U.S. DOLLARS | SINCE FILE ENTRY | TOTAL SESSION |
|--|------------------|---------------|
| FULL ESTIMATED COST | 14.16 | 51.92 |
| DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS) | SINCE FILE ENTRY | TOTAL SESSION |
| CA SUBSCRIBER PRICE | 0.00 | -2.34 |

FILE 'CAPLUS' ENTERED AT 15:36:09 ON 10 JAN 2007

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FILE COVERS 1907 - 10 Jan 2007 VOL 146 ISS 3
FILE LAST UPDATED: 9 Jan 2007 (20070109/ED)

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<http://www.cas.org/infopolicy.html>

=> s us 20040229944/pn
L19 1 US 20040229944/PN
(US2004229944/PN)

=> sel rn
E1 THROUGH E9 ASSIGNED

| COST IN U.S. DOLLARS | SINCE FILE ENTRY | TOTAL SESSION |
|--|------------------|---------------|
| FULL ESTIMATED COST | 2.56 | 54.48 |
| DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS) | SINCE FILE ENTRY | TOTAL SESSION |
| CA SUBSCRIBER PRICE | 0.00 | -2.34 |

FILE 'REGISTRY' ENTERED AT 15:36:26 ON 10 JAN 2007
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PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
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Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 9 JAN 2007 HIGHEST RN 917076-17-6
DICTIONARY FILE UPDATES: 9 JAN 2007 HIGHEST RN 917076-17-6

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH June 30, 2006

Please note that search-term pricing does apply when conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

<http://www.cas.org/ONLINE/UG/regprops.html>

=> s e1-9
1 142243-02-5/BI
(142243-02-5/RN)
1 143537-62-6/BI

(143537-62-6/RN)
1 148640-14-6/BI
(148640-14-6/RN)
1 155215-87-5/BI
(155215-87-5/RN)
1 165245-96-5/BI
(165245-96-5/RN)
1 168982-69-2/BI
(168982-69-2/RN)
1 2185-02-6/BI
(2185-02-6/RN)
1 2185-03-7/BI
(2185-03-7/RN)
1 67605-85-0/BI
(67605-85-0/RN)
L20 9 (142243-02-5/BI OR 143537-62-6/BI OR 148640-14-6/BI OR 155215-87-5/BI OR 165245-96-5/BI OR 168982-69-2/BI OR 2185-02-6/BI OR 2185-03-7/BI OR 67605-85-0/BI)

=> d rn hitstr
'HITSTR' IS NOT A VALID FORMAT FOR FILE 'REGISTRY'

The following are valid formats:

Substance information can be displayed by requesting individual fields or predefined formats. The predefined substance formats are: (RN = CAS Registry Number)

| | |
|--------|---|
| REG | - RN |
| SAM | - Index Name, MF, and structure - no RN |
| FIDE | - All substance data, except sequence data |
| IDE | - FIDE, but only 50 names |
| SQIDE | - IDE, plus sequence data |
| SQIDE3 | - Same as SQIDE, but 3-letter amino acid codes are used |
| SQD | - Protein sequence data, includes RN |
| SQD3 | - Same as SQD, but 3-letter amino acid codes are used |
| SQN | - Protein sequence name information, includes RN |
| CALC | - Table of calculated properties |
| EPROP | - Table of experimental properties |
| PROP | - EPROP and CALC |

Any CA File format may be combined with any substance format to obtain CA references citing the substance. The substance formats must be cited first. The CA File predefined formats are:

| | |
|-------|--|
| ABS | -- Abstract |
| APPS | -- Application and Priority Information |
| BIB | -- CA Accession Number, plus Bibliographic Data |
| CAN | -- CA Accession Number |
| CBIB | -- CA Accession Number, plus Bibliographic Data (compressed) |
| IND | -- Index Data |
| IPC | -- International Patent Classification |
| PATS | -- PI, SO |
| STD | -- BIB, IPC, and NCL |
| IABS | -- ABS, indented, with text labels |
| IBIB | -- BIB, indented, with text labels |
| ISTD | -- STD format, indented |
| OBIB | ----- AN, plus Bibliographic Data (original) |
| OIBIB | ----- OBIB, indented with text labels |
| SBIB | ----- BIB, no citations |
| SIBIB | ----- IBIB, no citations |

The ALL format gives FIDE BIB ABS IND RE, plus sequence data when it is available.

The MAX format is the same as ALL.

The IALL format is the same as ALL with BIB ABS and IND indented, with text labels.

For additional information, please consult the following help messages:

HELP DFIELDS -- To see a complete list of individual display fields.

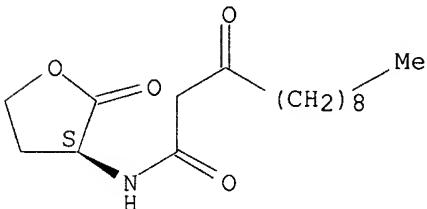
HELP FORMATS -- To see detailed descriptions of the predefined formats.

ENTER DISPLAY FORMAT (IDE):end

=> d 120 1-9

L20 ANSWER 1 OF 9 REGISTRY COPYRIGHT 2007 ACS on STN
RN 168982-69-2 REGISTRY
ED Entered STN: 17 Oct 1995
CN Dodecanamide, 3-oxo-N-[(3S)-tetrahydro-2-oxo-3-furanyl]- (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Dodecanamide, 3-oxo-N-(tetrahydro-2-oxo-3-furanyl)-, (S)-
OTHER NAMES:
CN n-(3-Oxododecanoyl) L-homoserine lactone
CN N-(3-Oxododecanoyl)homoserine lactone
FS STEREOSEARCH
MF C16 H27 N O4
SR CA
LC STN Files: BIOSIS, CA, CAPLUS, CASREACT, TOXCENTER, USPAT2, USPATFULL

Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

148 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
150 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L20 ANSWER 2 OF 9 REGISTRY COPYRIGHT 2007 ACS on STN
RN 165245-96-5 REGISTRY
ED Entered STN: 26 Jul 1995
CN Kinase (phosphorylating), protein, RK (9CI) (CA INDEX NAME)
OTHER NAMES:
CN 20: PN: WO2006059323 PAGE: 14 claimed sequence
CN CSBP
CN CSBP kinase
CN CSBP/p38 kinase
CN Cytokine synthesis anti-inflammatory drug-binding protein
CN EhHOG MAP kinase
CN High-osmolarity glycerol response kinase
CN Hog1 MAP kinase
CN MAP kinase Hog1p
CN Mitogen-activated protein kinase 14

CN Mitogen-activated protein kinase Mxi2
CN P38 kinase
CN p38 MAP kinase
CN p38 MAPK
CN p38 Mitogen-activated kinase
CN p38 Mitogen-activated protein kinase
CN P38 protein kinase
CN P38-2 mitogen-activated protein kinase
CN p38 α MAP kinase
CN p38 α Mitogen-activated protein kinase
CN p38/RK
CN Protein kinase HOG1
CN Protein kinase p38/HOG
CN Protein kinase p38/HOG1
CN Protein kinase p38mapk
CN Protein kinase p38SAPK2
CN Protein kinase RK
CN Protein kinase SAPK2a
CN Protein p38 α kinase
CN Reactivating kinase
CN SAPK2a/p38 kinase
CN Stress-activated protein kinase p38 α
CN Stress-activated protein kinase-2a
CN Stress-activated-protein kinase-2
DR 185402-48-6, 185464-66-8
MF Unspecified
CI COM, MAN
SR CA
LC STN Files: ADISNEWS, AGRICOLA, BIOSIS, CA, CAPLUS, CASREACT, CIN, PROMT,
TOXCENTER, USPAT2, USPATFULL

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

10373 REFERENCES IN FILE CA (1907 TO DATE)
247 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
10431 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L20 ANSWER 3 OF 9 REGISTRY COPYRIGHT 2007 ACS on STN
RN 155215-87-5 REGISTRY
ED Entered STN: 20 May 1994
CN Kinase (phosphorylating), gene c-jun protein N-terminal (9CI) (CA INDEX NAME)

OTHER NAMES:

CN c-Jun amino-terminal kinase
CN c-Jun amino-terminal protein kinase
CN c-Jun kinase
CN c-Jun N-terminal kinase
CN c-Jun N-terminal protein kinase
CN c-Jun protein N-terminal kinase
CN Gene c-jun protein kinase
CN JNK
CN JNK kinase
CN JNK protein kinase
CN Jun kinase
CN JUN N-terminal kinase
CN Jun NH2-terminal kinase
CN Jun-NH2 kinase
CN Protein kinase JNK
CN Protein kinase sapk1
CN Protein kinase SAPK1 γ
CN SAP kinase
CN SAPK γ kinase
CN SAPK/JNK kinase

CN Stress-activated protein kinase
CN Stress-activated protein kinase- γ
DR 177893-53-7, 143180-76-1
MF Unspecified
CI MAN
SR CA
LC STN Files: ADISNEWS, AGRICOLA, BIOSIS, BIOTECHNO, CA, CAPLUS, CIN,
EMBASE, PROMT, TOXCENTER, USPAT2, USPATFULL

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

7735 REFERENCES IN FILE CA (1907 TO DATE)

151 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA

7767 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L20 ANSWER 4 OF 9 REGISTRY COPYRIGHT 2007 ACS on STN

RN 148640-14-6 REGISTRY

ED Entered STN: 14 Jul 1993

CN Kinase (phosphorylating), protein, Akt (9CI) (CA INDEX NAME)

OTHER NAMES:

CN Akt kinase

CN Akt protein kinase

CN Akt/PKB protein kinase

CN Akt/protein kinase B

CN Akt/Rac protein kinase

CN Akt1 kinase

CN Gene c-akt protein kinase

CN Kinase (phosphorylating), gene c-akt protein

CN Protein kinase akt

CN Protein kinase Akt/PKB

CN Protein kinase Akt1

CN Protein kinase B

CN Rac kinase

CN RAC protein kinase

CN Rac-1 protein kinase

CN Serine-threonine protein kinase Akt

CN Serine/threonine kinase Akt

CN Serine/threonine kinase AKT1

CN Serine/threonine kinase B

CN Serine/threonine protein kinase B

DR 165245-98-7

MF Unspecified

CI MAN

SR CA

LC STN Files: AGRICOLA, ANABSTR, BIOSIS, BIOTECHNO, CA, CAPLUS, CHEMLIST,
CIN, EMBASE, PROMT, TOXCENTER, USPAT2, USPATFULL

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

10200 REFERENCES IN FILE CA (1907 TO DATE)

476 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA

10278 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L20 ANSWER 5 OF 9 REGISTRY COPYRIGHT 2007 ACS on STN

RN 143537-62-6 REGISTRY

ED Entered STN: 18 Sep 1992

CN Hexanamide, 3-oxo-N-[(3S)-tetrahydro-2-oxo-3-furanyl]- (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN Hexanamide, 3-oxo-N-(tetrahydro-2-oxo-3-furanyl)-, (S)-

OTHER NAMES:

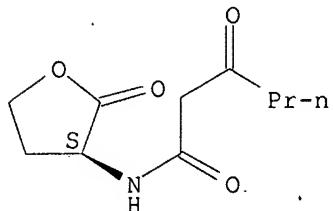
CN L-3-Oxo-hexanoyl-homoserine lactone

CN N-(3-Oxohexanoyl)-L-homoserine lactone

CN N- β -Oxohexanoyl-L-homoserine lactone

FS STEREOSEARCH
MF C10 H15 N O4
SR CA
LC STN Files: BIOSIS, CA, CAPLUS, CASREACT, CHEMCATS, CSCHEM, TOXCENTER,
USPAT2, USPATFULL

Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

150 REFERENCES IN FILE CA (1907 TO DATE)
2 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
152 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L20 ANSWER 6 OF 9 REGISTRY COPYRIGHT 2007 ACS on STN
RN 142243-02-5 REGISTRY
ED Entered STN: 08 Jul 1992
CN Kinase (phosphorylating), mitogen-activated protein (9CI) (CA INDEX NAME)
OTHER NAMES:
CN ERK
CN ERK kinase
CN Erk receptor tyrosine kinase
CN ERK/MAP kinase
CN Extracellular signal-regulated kinase
CN Extracellular signal-regulated protein kinase
CN Gene ERK protein kinase
CN MAP kinase
CN MAP/ERK kinase
CN MAPK
CN Mitogen-activated protein kinase
CN p43 MAP kinase
CN p43 Mitogen-activated protein kinase
CN p45 MAP kinase
DR 133876-94-5, 141349-99-7, 141350-00-7, 141616-09-3
MF Unspecified
CI MAN
SR CA
LC STN Files: ADISNEWS, AGRICOLA, BIOSIS, BIOTECHNO, CA, CAPLUS, CIN,
EMBASE, PROMT, TOXCENTER, USPAT2, USPATFULL

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

12086 REFERENCES IN FILE CA (1907 TO DATE)
96 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
12162 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L20 ANSWER 7 OF 9 REGISTRY COPYRIGHT 2007 ACS on STN
RN 67605-85-0 REGISTRY
ED Entered STN: 16 Nov 1984
CN Butanamide, N-[(3S)-tetrahydro-2-oxo-3-furanyl]- (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Butanamide, N-(tetrahydro-2-oxo-3-furanyl)-, (S)-

OTHER NAMES:

CN N-Butanoyl-L-homoserine lactone

CN N-Butyryl-L-homoserine lactone

CN PAI

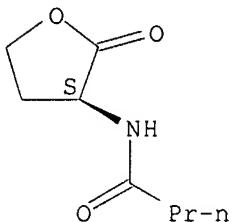
FS STEREOSEARCH

MF C8 H13 N O3

LC STN Files: AGRICOLA, ANABSTR, BEILSTEIN*, BIOSIS, CA, CAPLUS, CASREACT, CHEMCATS, SPECINFO, TOXCENTER, USPAT2, USPATFULL

(*File contains numerically searchable property data)

Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

158 REFERENCES IN FILE CA (1907 TO DATE)

159 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L20 ANSWER 8 OF 9 REGISTRY COPYRIGHT 2007 ACS on STN

RN 2185-03-7 REGISTRY

ED Entered STN: 16 Nov 1984

CN 2(3H)-Furanone, 3-aminodihydro-, hydrochloride, (3S)- (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 2(3H)-Furanone, 3-aminodihydro-, hydrochloride, (S)-

OTHER NAMES:

CN (S)-Homoserine lactone hydrochloride

CN L-Homoserine lactone hydrochloride

FS STEREOSEARCH

MF C4 H7 N O2 . Cl H

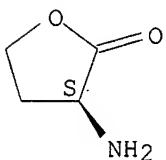
LC STN Files: BEILSTEIN*, CA, CAOLD, CAPLUS, CASREACT, CHEMCATS, CHEMINFORMRX, CHEMLIST, CSCHEM, TOXCENTER, USPAT2, USPATFULL
(*File contains numerically searchable property data)

Other Sources: EINECS**

(**Enter CHEMLIST File for up-to-date regulatory information)

CRN (2185-02-6)

Absolute stereochemistry. Rotation (-).



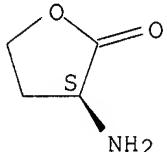
● HCl

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

66 REFERENCES IN FILE CA (1907 TO DATE)
66 REFERENCES IN FILE CAPLUS (1907 TO DATE)
1 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

L20 ANSWER 9 OF 9 REGISTRY COPYRIGHT 2007 ACS on STN
RN 2185-02-6 REGISTRY
ED Entered STN: 16 Nov 1984
CN 2(3H)-Furanone, 3-aminodihydro-, (3S)- (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN 2(3H)-Furanone, 3-aminodihydro-, (S)-
CN 2(3H)-Furanone, 3-aminodihydro-, L- (8CI)
OTHER NAMES:
CN ((S)-2-Oxotetrahydrofuran-3-yl)amine
CN L- α -Aminobutyrolactone
CN L-Homoserine γ -lactone
CN L-Homoserine lactone
FS STEREOSEARCH
MF C4 H7 N O2
CI COM
LC STN Files: AGRICOLA, BEILSTEIN*, BIOSIS, CA, CAOLD, CAPLUS, CASREACT,
CHEMCATS, CSCHEM, SYNTHLINE, TOXCENTER, USPAT2, USPATFULL
(*File contains numerically searchable property data)

Absolute stereochemistry. Rotation (-).



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

135 REFERENCES IN FILE CA (1907 TO DATE)
77 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
137 REFERENCES IN FILE CAPLUS (1907 TO DATE)
3 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

| | | |
|--|------------------|---------------|
| => file caplus | | |
| COST IN U.S. DOLLARS | SINCE FILE ENTRY | TOTAL SESSION |
| FULL ESTIMATED COST | 19.35 | 73.83 |
| DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS) | SINCE FILE ENTRY | TOTAL SESSION |
| CA SUBSCRIBER PRICE | 0.00 | -2.34 |

FILE 'CAPLUS' ENTERED AT 15:39:03 ON 10 JAN 2007
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FILE COVERS 1907 - 10 Jan 2007 VOL 146 ISS 3
FILE LAST UPDATED: 9 Jan 2007 (20070109/ED)

Effective October 17, 2005, revised CAS Information Use Policies apply.
They are available for your review at:

<http://www.cas.org/infopolicy.html>

=> s l20 1,5,7

MISSING OPERATOR L20 1,5,7

The search profile that was entered contains terms or nested terms that are not separated by a logical operator.

=> s l20 1

MISSING OPERATOR L20 1

The search profile that was entered contains terms or nested terms that are not separated by a logical operator.

=> s 67605-85-0

REGISTRY INITIATED

Substance data SEARCH and crossover from CAS REGISTRY in progress...

Use DISPLAY HITSTR (or FHITSTR) to directly view retrieved structures.

L22 159 L21

=> s (143537-62-6 or 168982-69-2)/rn

152 143537-62-6

2 143537-62-6D

151 143537-62-6/RN

(143537-62-6 (NOTL) 143537-62-6D)

150 168982-69-2

1 168982-69-2D

149 168982-69-2/RN

(168982-69-2 (NOTL) 168982-69-2D.)

L23 255 (143537-62-6 OR 168982-69-2)/RN

=> s 123 or 122

L24 315 L23 OR L22

=> s cancer or tumor or neoplas?

302427 CANCER

44281 CANCERS

313875 CANCER

(CANCER OR CANCERS)

394494 TUMOR

153878 TUMORS

443224 TUMOR

(TUMOR OR TUMORS)

476602 NEOPLAS?

L25 747127 CANCER OR TUMOR OR NEOPLAS?

=> s 125 and 124

L26 12 L25 AND L24

=> s 126 not py>2002

4771960 PY>2002
L27 2 L26 NOT PY>2002

=> d ibib 1-2

L27 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1998:7802 CAPLUS
DOCUMENT NUMBER: 128:113981
TITLE: The Pseudomonas aeruginosa quorum-sensing signal molecule N-(3-oxododecanoyl)-L-homoserine lactone has immunomodulatory activity
AUTHOR(S): Telford, Gary; Wheeler, D.; Williams, Paul; Tomkins, P. T.; Appleby, P.; Sewell, Herbert; Stewart, Gordon S. A. B.; Bycroft, Barrie W.; Pritchard, David I.
CORPORATE SOURCE: Department of Life Science, University of Nottingham, University Park, Nottingham, NG7 2RD, UK
SOURCE: Infection and Immunity (1998), 66(1), 36-42
CODEN: INFIBR; ISSN: 0019-9567
PUBLISHER: American Society for Microbiology
DOCUMENT TYPE: Journal
LANGUAGE: English
REFERENCE COUNT: 35 THERE ARE 35 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L27 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1993:251291 CAPLUS
DOCUMENT NUMBER: 118:251291
TITLE: Agrobacterium conjugation and gene regulation by N-acyl-L-homoserine lactones
AUTHOR(S): Zhang, Lianhui; Murphy, Peter J.; Kerr, Allen; Tate, Max E.
CORPORATE SOURCE: Waite Agric. Res. Inst., Univ. Adelaide, Glen Osmond, 5064, Australia
SOURCE: Nature (London, United Kingdom) (1993), 362(6419), 446-8
CODEN: NATUAS; ISSN: 0028-0836
DOCUMENT TYPE: Journal
LANGUAGE: English

=> d kwic 1-2

L27 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2007 ACS on STN
AB . . . lactone (OHHL) were evaluated in murine and human leukocyte immunoassays in vitro. OdDHL, but not OHHL, inhibited lymphocyte proliferation and tumor necrosis factor α production by lipopolysaccharide-stimulated macrophages. Furthermore, OdDHL simultaneously and potently down-regulated the production of IL-12, a Th1-supportive cytokine.. . .
IT Interleukin 12
Tumor necrosis factors
RL: BSU (Biological study, unclassified); MFM (Metabolic formation); BIOL (Biological study); FORM (Formation, nonpreparative)
(Pseudomonas aeruginosa quorum-sensing signal mol. L-homoserine lactone has immunomodulatory activity)
IT 143537-62-6 168982-69-2
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); BIOL (Biological study)
(Pseudomonas aeruginosa quorum-sensing signal mol. L-homoserine lactone has immunomodulatory activity)

L27 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2007 ACS on STN
AB Conjugal opines secreted by crown gall tumors induce strains of Agrobacterium tumefaciens that are donors of Ti plasmids to produce a diffusible conjugation factor. This enhances the. . .

IT 143537-62-6 147795-40-2 147852-83-3 147852-84-4
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); BIOL (Biological study)
(conjugation of Agrobacterium tumefaciens response to)

=> d his

(FILE 'HOME' ENTERED AT 15:27:16 ON 10 JAN 2007)

FILE 'CAPLUS' ENTERED AT 15:27:41 ON 10 JAN 2007

L1 161314 S APOPT? OR (CELL DEATH)
L2 1190 S ?HOMOSERINE LACTONE
L3 15 S L2 (L) L1
L4 2 S L3 NOT PY>2003
L5 16218 S (INTERLEUKIN () 8) OR (IL () 8)
L6 686 S L5 (L) L1
L7 286 S L6 NOT PY>2002
L8 18 S L1 AND L2
L9 1 S L8 NOT PY>2002

FILE 'PCTFULL' ENTERED AT 15:32:39 ON 10 JAN 2007

L10 33437 S APOPT? OR (CELL DEATH)
L11 360 S ?HOMOSERINE LACTONE
L12 48 S L11 AND L10
L13 28 S L12 NOT PY>2002
L14 40 S OXODODECANOYL
L15 0 S L14 AND L13
L16 0 S L15 AND L11
L17 39 S L14 AND L11
L18 3 S L17 AND L10

FILE 'CAPLUS' ENTERED AT 15:36:09 ON 10 JAN 2007

L19 1 S US 20040229944/PN
SEL RN

FILE 'REGISTRY' ENTERED AT 15:36:26 ON 10 JAN 2007

L20 9 S E1-9

FILE 'CAPLUS' ENTERED AT 15:39:03 ON 10 JAN 2007
S 67605-85-0/REG#

FILE 'REGISTRY' ENTERED AT 15:40:24 ON 10 JAN 2007
L21 1 S 67605-85-0/RN

FILE 'CAPLUS' ENTERED AT 15:40:24 ON 10 JAN 2007
L22 159 S L21
L23 255 S (143537-62-6 OR 168982-69-2) /RN
L24 315 S L23 OR L22
L25 747127 S CANCER OR TUMOR OR NEOPLAS?
L26 12 S L25 AND L24
L27 2 S L26 NOT PY>2002

=> s l24 and 11

L28 11 S L24 AND L1

=> s l28 not py>2003

3716318 PY>2003
L29 2 S L28 NOT PY>2003

=> d ibib 1-2

L29 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2003:778671 CAPLUS
DOCUMENT NUMBER: 139:306377

TITLE: The Pseudomonas aeruginosa autoinducer
N-3-oxododecanoyl homoserine lactone accelerates
apoptosis in macrophages and neutrophils
AUTHOR(S): Tateda, Kazuhiro; Ishii, Yoshikazu; Horikawa, Manabu;
Matsumoto, Tetsuya; Miyairi, Shinichi; Pechere, Jean
Claude; Standiford, Theodore J.; Ishiguro, Masaji;
Yamaguchi, Keizo
CORPORATE SOURCE: Department of Microbiology, Toho University School of
Medicine, Tokyo, Japan
SOURCE: Infection and Immunity (2003), 71(10), 5785-5793
CODEN: INFIBR; ISSN: 0019-9567
PUBLISHER: American Society for Microbiology
DOCUMENT TYPE: Journal
LANGUAGE: English
REFERENCE COUNT: 50 THERE ARE 50 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L29 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2003:369403 CAPLUS
DOCUMENT NUMBER: 138:378843
TITLE: Modulation effects of azithromycin for bacterial
factors
AUTHOR(S): Tateda, Kazuhiro; Ishii, Yoshikazu; Yamaguchi, Keizo
CORPORATE SOURCE: Sch. Med., Toho Univ., Japan
SOURCE: Japanese Journal of Antibiotics (2003), Volume Date
2002, 56(Suppl. A, Makuroraido no Shinsayo Kenkyu),
20-24
CODEN: JJANAX; ISSN: 0368-2781
PUBLISHER: Japan Antibiotics Research Association
DOCUMENT TYPE: Journal
LANGUAGE: Japanese

=> d 129 ibib abs kwic 2

L29 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2003:369403 CAPLUS
DOCUMENT NUMBER: 138:378843
TITLE: Modulation effects of azithromycin for bacterial
factors
AUTHOR(S): Tateda, Kazuhiro; Ishii, Yoshikazu; Yamaguchi, Keizo
CORPORATE SOURCE: Sch. Med., Toho Univ., Japan
SOURCE: Japanese Journal of Antibiotics (2003), Volume Date
2002, 56(Suppl. A, Makuroraido no Shinsayo Kenkyu),
20-24
CODEN: JJANAX; ISSN: 0368-2781
PUBLISHER: Japan Antibiotics Research Association
DOCUMENT TYPE: Journal
LANGUAGE: Japanese

AB Prolonged incubation of Pseudomonas in macrolide-containing media,
erythromycin, clarithromycin and azithromycin (AZM) demonstrated
bactericidal effect on Pseudomonas at sub-MIC level. Repression of
protein synthesis of the Pseudomonas was suggested as the mechanism of the
bactericidal effect. AZM repressed the production of elastase and
rhamnolipid. AZM repressed the expression of the genes involved in
quorum-sensing system. Results were discussed in relation to the action
of macrolides on Pseudomonas in airway infection.

IT Apoptosis
(generation of, by HSL; modulation effects of azithromycin for
bacterial factors)
IT 67605-85-0, N-(Butanoyl)-L-homoserine lactone 168982-69-2
, N-[3-Oxododecanoyl]-L-homoserine lactone
RL: BSU (Biological study, unclassified); BIOL (Biological study)
(modulation effects of azithromycin for bacterial factors)

=> d his

(FILE 'HOME' ENTERED AT 15:27:16 ON 10 JAN 2007)

FILE 'CAPLUS' ENTERED AT 15:27:41 ON 10 JAN 2007

L1 161314 S APOPT? OR (CELL DEATH)
L2 1190 S ?HOMOSERINE LACTONE
L3 15 S L2 (L) L1
L4 2 S L3 NOT PY>2003
L5 16218 S (INTERLEUKIN () 8) OR (IL () 8)
L6 686 S L5 (L) L1
L7 286 S L6 NOT PY>2002
L8 18 S L1 AND L2
L9 1 S L8 NOT PY>2002

FILE 'PCTFULL' ENTERED AT 15:32:39 ON 10 JAN 2007

L10 33437 S APOPT? OR (CELL DEATH)
L11 360 S ?HOMOSERINE LACTONE
L12 48 S L11 AND L10
L13 28 S L12 NOT PY>2002
L14 40 S OXODODECANOYL
L15 0 S L14 AND L13
L16 0 S L15 AND L11
L17 39 S L14 AND L11
L18 3 S L17 AND L10

FILE 'CAPLUS' ENTERED AT 15:36:09 ON 10 JAN 2007

L19 1 S US 20040229944/PN
 SEL RN

FILE 'REGISTRY' ENTERED AT 15:36:26 ON 10 JAN 2007

L20 9 S E1-9

FILE 'CAPLUS' ENTERED AT 15:39:03 ON 10 JAN 2007

S 67605-85-0/REG#

FILE 'REGISTRY' ENTERED AT 15:40:24 ON 10 JAN 2007

L21 1 S 67605-85-0/RN

FILE 'CAPLUS' ENTERED AT 15:40:24 ON 10 JAN 2007

L22 159 S L21
L23 255 S (143537-62-6 OR 168982-69-2) /RN
L24 315 S L23 OR L22
L25 747127 S CANCER OR TUMOR OR NEOPLAS?
L26 12 S L25 AND L24
L27 2 S L26 NOT PY>2002
L28 11 S L24 AND L1
L29 2 S L28 NOT PY>2003

=> s l24 and 15

L30 4 L24 AND L5

=> d ibib 1-4

L30 ANSWER 1 OF 4 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2006:1113320 CAPLUS

TITLE: Pseudomonas aeruginosa autoinducer modulates host cell responses through calcium signalling

AUTHOR(S): Shiner, E. K.; Terentyev, D.; Bryan, A.; Sennoune, S.; Martinez-Zagulian, R.; Li, G.; Gyorke, S.; Williams, S. C.; Rumbaugh, K. P.

CORPORATE SOURCE: Department of Microbiology, Texas Tech University Health Sciences Center, Lubbock, TX, 79430, USA

SOURCE: Cellular Microbiology (2006), 8(10), 1601-1610

PUBLISHER: CODEN: CEMIF5; ISSN: 1462-5814
DOCUMENT TYPE: Blackwell Publishing Ltd.
LANGUAGE: Journal
REFERENCE COUNT: English
28 THERE ARE 28 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L30 ANSWER 2 OF 4 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2006:1055994 CAPLUS
DOCUMENT NUMBER: 145:354553
TITLE: Induction of neutrophil chemotaxis by the quorum-sensing molecule N-(3-oxododecanoyl)-L-homoserine lactone
AUTHOR(S): Zimmermann, Sabine; Wagner, Christof; Mueller, Wencke; Brenner-Weiss, Gerald; Hug, Friederike; Prior, Birgit; Obst, Ursula; Haensch, Gertrud Maria
CORPORATE SOURCE: Institut fuer Immunologie der Universitaet Heidelberg, Heidelberg, Germany
SOURCE: Infection and Immunity (2006), 74(10), 5687-5692
PUBLISHER: CODEN: INFIBR; ISSN: 0019-9567
DOCUMENT TYPE: American Society for Microbiology
LANGUAGE: Journal
REFERENCE COUNT: English
33 THERE ARE 33 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L30 ANSWER 3 OF 4 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2002:135509 CAPLUS
DOCUMENT NUMBER: 137:199307
TITLE: Detection of *Pseudomonas aeruginosa* cell-to-cell signals in lung tissue of cystic fibrosis patients
AUTHOR(S): Favre-Bonte, Sabine; Pache, Jean-Claude; Robert, John; Blanc, Dominique; Pechere, Jean-Claude; van Delden, Christian
CORPORATE SOURCE: Department of Genetics and Microbiology, University Hospital Geneva, Geneva, CH-1211, Switz.
SOURCE: Microbial Pathogenesis (2002), 32(3), 143-147
PUBLISHER: CODEN: MIPAEV; ISSN: 0882-4010
DOCUMENT TYPE: Elsevier Science
LANGUAGE: Journal
REFERENCE COUNT: English
20 THERE ARE 20 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L30 ANSWER 4 OF 4 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2001:471002 CAPLUS
DOCUMENT NUMBER: 135:209777
TITLE: IL-8 production in human lung fibroblasts and epithelial cells activated by the *Pseudomonas* autoinducer N-3-oxododecanoyl homoserine lactone is transcriptionally regulated by NF- κ B and activator protein-2
AUTHOR(S): Smith, Roger S.; Fedyk, Eric R.; Springer, T. A.; Mukaida, N.; Iglewski, Barbara H.; Phipps, Richard P.
CORPORATE SOURCE: Department of Microbiology and Immunology, University of Rochester School of Medicine and Dentistry, Rochester, NY, 14642, USA
SOURCE: Journal of Immunology (2001), 167(1), 366-374
PUBLISHER: CODEN: JOIMA3; ISSN: 0022-1767
DOCUMENT TYPE: American Association of Immunologists
LANGUAGE: Journal
REFERENCE COUNT: English
52 THERE ARE 52 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> d ibib abs kwic 2

L30 ANSWER 2 OF 4 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2006:1055994 CAPLUS
DOCUMENT NUMBER: 145:354553
TITLE: Induction of neutrophil chemotaxis by the
quorum-sensing molecule N-(3-oxododecanoyl)-L-
homoserine lactone
AUTHOR(S): Zimmermann, Sabine; Wagner, Christof; Mueller, Wencke;
Brenner-Weiss, Gerald; Hug, Friederike; Prior, Birgit;
Obst, Ursula; Haensch, Gertrud Maria
CORPORATE SOURCE: Institut fuer Immunologie der Universitaet Heidelberg,
Heidelberg, Germany
SOURCE: Infection and Immunity (2006), 74(10), 5687-5692
CODEN: INFIBR; ISSN: 0019-9567
PUBLISHER: American Society for Microbiology
DOCUMENT TYPE: Journal
LANGUAGE: English

AB Acyl homoserine lactones are synthesized by *Pseudomonas aeruginosa* as signaling mols. which control production of virulence factors and biofilm formation in a paracrine manner. The authors found that N-(3-oxododecanoyl)-L-homoserine lactone (3OC12-HSL), but not its 3-deoxy isomer or acyl-homoserine lactones with shorter fatty acids, induced the directed migration (chemotaxis) of human polymorphonuclear neutrophils (PMN) in vitro. By use of selective inhibitors a signaling pathway, comprising phosphotyrosine kinases, phospholipase C, protein kinase C, and mitogen-activated protein kinase C, could be delineated. In contrast to the well-studied chemokines complement C5a and interleukin 8, the chemotaxis did not depend on pertussis toxin-sensitive G proteins, indicating that 3OC12-HSL uses another signaling pathway. Strong evidence for the presence of a receptor for 3OC12-HSL on PMN was derived from uptake studies; by use of radiolabeled 3OC12-HSL, specific and saturable binding to PMN was seen. Taken together, the authors' data provide evidence that PMN recognize and migrate toward a source of 3OC12-HSL (i.e., to the site of a developing biofilm). The authors propose that this early attraction of PMN could contribute to prevention of biofilm formation.

REFERENCE COUNT: 33 THERE ARE 33 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

AB Acyl homoserine lactones are synthesized by *Pseudomonas aeruginosa* as signaling mols. which control production of virulence factors and biofilm formation in a paracrine manner. The authors found that N-(3-oxododecanoyl)-L-homoserine lactone (3OC12-HSL), but not its 3-deoxy isomer or acyl-homoserine lactones with shorter fatty acids, induced the directed migration (chemotaxis) of human polymorphonuclear neutrophils (PMN) in vitro. By use of selective inhibitors a signaling pathway, comprising phosphotyrosine kinases, phospholipase C, protein kinase C, and mitogen-activated protein kinase C, could be delineated. In contrast to the well-studied chemokines complement C5a and interleukin 8, the chemotaxis did not depend on pertussis toxin-sensitive G proteins, indicating that 3OC12-HSL uses another signaling pathway. Strong evidence for the presence of a receptor for 3OC12-HSL on PMN was derived from uptake studies; by use of radiolabeled 3OC12-HSL, specific and saturable binding to PMN was seen. Taken together, the authors' data provide evidence that PMN recognize and migrate toward a source of 3OC12-HSL (i.e., to the site of a developing biofilm). The authors propose that this early attraction of PMN could contribute to prevention of biofilm formation.

IT 168982-69-2, N-(3-Oxododecanoyl)-L-homoserine lactone
RL: BSU (Biological study, unclassified); BIOL (Biological study)
(neutrophil chemotaxis induction by quorum-sensing mol.
N-(3-oxododecanoyl)-L-homoserine lactone)

=>

---Logging off of STN---

=>

Executing the logoff script...

=> LOG Y

COST IN U.S. DOLLARS

| SINCE FILE
ENTRY | TOTAL
SESSION |
|---------------------|------------------|
| 45.03 | 120.25 |

FULL ESTIMATED COST

| SINCE FILE
ENTRY | TOTAL
SESSION |
|---------------------|------------------|
| -3.12 | -5.46 |

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

CA SUBSCRIBER PRICE

STN INTERNATIONAL LOGOFF AT 15:47:17 ON 10 JAN 2007